

8/17/2018

Denali Water Cindy Duenes 2001 Key Street Colton, CA, 92324

Ref: Analytical Testing

Report Number: 18-220-0202 Project Description: VSD 1

Dear Cindy Duenes:

Waypoint Analytical Virginia, Inc. received sample(s) on 8/8/2018 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Pauric McGroary Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Arizona AZ0629 Florida E871087 New Jersey North Carolina VA011

Pennsylvania South Carolina 68-03109 93007 Virginia 460014





Client: Denali Water CASE NARRATIVE

Project: VSD 1

Lab Report Number: 18-220-0202

Date: 8/15/2018

Nitrate + Nitrite Nitrogen Method 4500NO3F-2011

Sample 62193 Analyte: NO3+NO2-N QC Batch No: E65513

The MS/MSD recoveries are considered insignificant due to the level of analyte present in the parent sample relative to the spike level . RPD is based on the MS/MSD results and should be evaluated as laboratory duplicates.

Metals Analysis Method 6010D

Sample 62196 Analyte: Al

QC Batch No: L394768

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: As

QC Batch No: L394948

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range. Due to the analyte concentration being less than 25 times the method quantitation limit (MQL) a post digestion spike was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: Ca

QC Batch No: L394768

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: Fe

QC Batch No: L394768

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: K

QC Batch No: L394768

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: P

QC Batch No: L394768

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.



Analyte: Pb

QC Batch No: L394768

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range. Due to the analyte concentration being less than 25 times the method quantitation limit (MQL) a post digestion spike was performed and the recovery was within the method limits. No matrix interference is suspected.

Analyte: S

QC Batch No: L394768

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

QC Batch No: L394948

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

Solids Total Mercury Analysis - CVAA Method SW-7471B

Sample 62193 Analyte: Hg

QC Batch No: E65541

MS/MSD Recovery failed, PDS confirmed matrix interference



Sample Summary Table

Report Number: 18-220-0202

Client Project Description: VSD 1

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
62195	VSD 1	Solids	08/06/2018 12:00	08/08/2018		
62195	VSD 1	Solids	08/06/2018 12:00	08/08/2018	6010D	WTN

WTN: Waypoint Analytical - TN, Memphis, TN, Certification: #1354

Report Number: 18-220-0202

Account Number: 11035



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Send To: Denali Water

Lab Number: 62195

Sample Id: VSD 1

Cindy Duenes 2001 Key Street Colton, CA 92324 Project: VSD 1

REPORT OF ANALYSIS

Date Sampled: 8/6/2018 12:00:00 **Date Received:** 08/08/2018 00:00

Date Reported: 08/17/2018

PARAMETER	RESULT (%)	RESULT (mg/kg)	QUANTITATION LIMIT (mg/kg*)	ANALYST	ANALYSIS DATE/TIME	METHOD
Total Solids *	95.78	957800	100.0	R D	08/08/2018 15:45	SM-2540G
Moisture *	4.21		100.0	R D	08/08/2018 15:45	SM-2540G
Total Kjeldahl Nitrogen	4.36	43600	50.0	R D	08/09/2018 08:45	SM-4500-NH3C-TKN
Phosphorus	1.63	16300	50.0	BKN	08/13/2018 19:21	6010D
Potassium	0.22	2200	50.0	BKN	08/13/2018 19:21	6010D
Sulfur	1.82	18200	50.0	BKN	08/14/2018 21:52	6010D
Calcium	3.59	35900	50.0	BKN	08/13/2018 19:21	6010D
Magnesium	0.40	4000	50.0	BKN	08/13/2018 19:21	6010D
Sodium	0.08	804	250	BKN	08/13/2018 19:21	6010D
Iron		21500	50.0	BKN	08/13/2018 19:21	6010D
Aluminum		9060	50.0	BKN	08/13/2018 19:21	6010D
Manganese		195	5.00	BKN	08/13/2018 19:21	6010D
Copper		330	2.50	BKN	08/13/2018 19:21	6010D
Zinc		1320	5.00	BKN	08/13/2018 19:21	6010D
Ammonia Nitrogen	0.29	2930	50.0	R D	08/09/2018 08:45	SM-4500-NH3C
Organic N	4.07	40670	50.0		08/09/2018 08:45	CALCULATION
Nitrate+Nitrite-N		16.4	2.34	MMT	08/10/2018 11:03	4500NO3F-2011

All values are on a dry weight basis except as noted by asterisk. Detection limit on all N series is on a wet basis.

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Paurie Mc Georg

Pauric McGroary Agronomist **Report Number:** 18-220-0202

Account Number: 11035



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

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Cindy Duenes 2001 Key Street Colton, CA 92324 Project: VSD 1

REPORT OF ANALYSIS

Date Sampled: 8/6/2018 12:00:00 **Date Received:** 08/08/2018 00:00

Date Reported: 08/17/2018

PARAMETER	RESULT (%)	RESULT (mg/kg)	QUANTITATION LIMIT (mg/kg*)	ANALYST	ANALYSIS DATE/TIME	METHOD
Cadmium		1.23	1.00	BKN	08/13/2018 19:21	6010D
Chromium		128	2.50	BKN	08/13/2018 19:21	6010D
Nickel		20.5	2.50	BKN	08/13/2018 19:21	6010D
Lead		19.2	3.00	BKN	08/13/2018 19:21	6010D
Arsenic		8.19	5.00	BKN	08/14/2018 21:52	6010D
Mercury		1.05	0.400	MMT	08/13/2018 14:28	SW-7471B
Selenium		8.39	5.00	BKN	08/14/2018 21:52	6010D
Molybdenum		22.4	2.50	BKN	08/13/2018 19:21	6010D

Comments:

AZ CERT#0629

AMMONIA-N, SULFUR NOT FOR COMPLIANCE PURPOSES

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Pauric Mc George

Pauric McGroary Agronomist



Cooler Receipt Form

Customer Number: 11035 **Denali Water** Customer Name: 18-220-0202 Report Number: **Shipping Method** Fed Ex Other: US Postal UPS Client Courier Thermometer ID: Shipping container/cooler uncompromised? Yes () No Number of coolers received 1 Yes O No Not Required Custody seals intact on shipping container/cooler? Yes Not Required Custody seals intact on sample bottles? () No Chain of Custody (COC) present? Yes \bigcirc No COC agrees with sample label(s)? Yes () No COC properly completed Yes O No Samples in proper containers? Yes () No Sample containers intact? Yes O No Sufficient sample volume for indicated test(s)? Yes \bigcirc No All samples received within holding time? Yes O No Cooler temperature in compliance? Yes () No Cooler/Samples arrived at the laboratory on ice. Yes O No Samples were considered acceptable as cooling process had begun. Yes O No ◯ N/A Water - Sample containers properly preserved Water - VOA vials free of headspace Yes No N/A Yes Trip Blanks received with VOAs () No N/A N/A Soil VOA method 5035 - compliance criteria met Yes \bigcirc No High concentration container (48 hr) Low concentration EnCore samplers (48 hr) High concentration pre-weighed (methanol -14 d) Low conc pre-weighed vials (Sod Bis -14 d) Special precautions or instructions included? () Yes No Comments:

Date & Time: 08/08/2018 12:44:10

Signature: Morgan Tichacek

Submitted By Subm	_		SAMPLET						7	100	TOSTODY	YC		N. S.		Account #
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